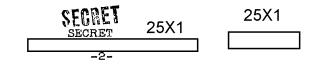
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- 3. The supply of sheet metal in the Soviet Zone is grossly inadequate, and that which is produced is generally of poor quality. There are few sheet metal rolling mills in the Zone, and these mills for themselves. The deficiency of steel rolling mills is so critical that the copper rolling mills at the Hettstedt copper plant, on the eastern slope of the Harz Mountains, were used to roll sheet steel. As a result of this use, the copper rolling mills were ruined, and the sheet steel produced was of low quality. The shortage of sheet metal is so severe at Leuna that in the last two years, four gas tanks have been erected from scrap metal salvaged from gas tanks which had been dismantled.
- 4. Special and alloyed steels are unavailable in the Soviet Zone, and there is no plant in the Zone currently engaged in producing such steel. The Soviet Zone of Germany is dependent upon the importation of Soviet steel, which, however, does not have the properties required for plant construction when special steel is needed. For example, for the reconstruction of the urea and nitric acid plants at Leuna, the Soviets have provided V-2-A steel. However, the operation of these two plants will be impaired by the poor quality of Soviet steel. A steel
- mill at Freital, near Dresden, which was completely dismentled in 1945, is to be reconstructed by the seviets to produce high quality steel. ______ the mill is not yet operational.
- 5. Zinc, lead and brass are critical items in the Soviet Zone.

 25X1 duction of base parts for Soviet railroad cars, and that a great amount of lead paint is supplied to shipbuilding plants for use in the painting of accumulators for Soviet submarines. This may explain the lead scarcity, although this resource should be plentiful in the Soviet Zone.
- 6. The shortage of machine tools at Leuna is most acute; lathes, shapers, and rolling machines were removed from the Material Testing Department and the main repair shop, when the Soviets dismantled Leuna in 1946.
- 25X1 The inadequate supply of screws, 25X1 bolts, nuts and nails is so serious that the Soviet Zone plans to 25X1 manufacture these items of cast iron rather than steel.
- sealing, packing and insulating materials will become increasingly scarce in the Soviet Zone. For example, gaskets capable of withstanding high pressures and used for the sealing of pipes are scarce, and those available are of poor quality. A few months ago, Head Engineer Guenther, who keeps records for the Soviets in the machine technological department at Leuna, the annual damage resulting from the use of poor packing and sealing materials in the plant amounted to DM 500 thousand. The Leuna 45-atmosphere boilers, purchased during World War I and among the first of such boilers produced in Germany, require 2000 gaskets. The boilers are soon in disrepair if the gaskets do not seal well, and the repair of one 45-atmosphere boiler costs DM 25 thousand.
 - 8. The asbestos from which the packings are made is imported either from the West or the USSR. Although the Soviets have good quality asbestos, an insufficient quantity is imported to the Soviet Zone of Germany. The total amount of first quality assectes imported, which consists of two cm fiber with good spinding qualities, amounts to 10-20 tons per year and is used almost exclusively for Soviet consumption. Most of it is allowabled to the

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Kabelwork Openspree (cable factory) in the Sowiet sector of Berlin, where it is used to insulate transformers which are shipped to the USSR. The sealing materials made of second quality are fair; the asbestos has good spinning qualities and a fiber length of two cm, but is prickly and gaskets made of it abrade the pipe. Approximately 60 tons of second quality asbestos are imported annually. Second quality assestes is used primarily for products which are to be experted. Approximately 300-500 tons of third quality asbestos are imported annually from the USSR, and subdivided into categories 34. 3B, and 3C. It is an inferior product, consisting of 30-40% cotton, and therafore will not withstand the pressure in the steam boilers. Geskets and packings made from this asbestos are soft and unable to sustain high temperatheres. The lack of good ambestos scaling may severely damage the ammonia owens. The packings for ammonia and methanol products must also act as electrical insulators, and for this reason, must be free of graphite and contein minimum emounts of rubber and cotton. Such packings are virtually unobtainable in the Zone of For the effective sealing of the machines in the copper-emmonium-sulfate plant and for sealing oxygen and methyl alcohol products, a special gasket is needed, having a lip with a coefficient of elasticity different from that of the rest of the ring. Production of these gaskets is impossible in the Soviet Zone, however, because the plants cannot solve the problem of manufacturing a g sket which is to have two different clasticities. The best gasket of this type is made by the Freudenberg Plant in the Western Zone. If Freudenberg should stop delivery, it would seriously impair production in the Soviet Zone of Germany. The asbestos packings produced in the Soviet Zone of Germany are made at "Kautas" (Rubber and Asbestos Plant) at Heidnau, south of Dresden. The plant operates with machinery confiscated from the Dankowiezl firm, which left the Soviet Zone and is now operating at Dortmana, in the Western Zone. "Kautas" is incapable of producing any of the specialized asbestos material needed at the Leuna Plant. As Chairman of the Sub-Committee for Soft Sealing Materials of the Commission to keep the standards of Standards, of the Chamber of Technology, improving the standard pressure for soft sealing material high; resistance of the sealing material from 130 kg/sq cm, but realize that this improvement is insufficient.

9. The Leuna Plant is initiating production of superconcentrated hydrogen perceide. For this purpose, a scaling material must be used which is acid-resistant. Before 1945, blue ambestos mixed with an oppanol resin was available in sufficient quantities, but now the supply is limited in the Zone because it must be imported. (Blue ambestos is a product of South Africa and oppanol is produced at Oppau, in the Western Zone.) The scaling products must be coarse, hard, and have abrasive properties. They must also be able to withstead high temperatures and be acid-resistant, especially resistant to sulfuric acid. When the last ambestos shipment from the West arrived at Leuna approximately six months ago, some blue ambestom was included. However, the blue ambestom was used for other types of packing because the lack of proper packing material was so critical.

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10. The Soviet Zone of Germany has no good turbine oil of consistent quality. The synthetic Leuna oil, 2A, which has performed well under test, is still in the experimental stage at Leuna. It does not attack metals and has shown high resistance to saponification; however, the durability of the oil has not yet been established. This synthetic oil may prove superior to matural mineral oils, but the cost of production is still prohibitive. The daily pilot plant production of Leuna 2A oil is approximately one ton; a synthetic oil plant has not yet been constructed. Machine oils are of poor quality, but are not starce in the Soviet Zone; in fact, three months ago, machine and motor oils were removed from the list of rationed goods. The synthetic rubber plant in Schkopan has started producing motor oils, buying the crude oil from the Litzhendorf Plant. By preparing the oil for Schkopau, Litzkendorf has seriously impaired the quality of its own hot steam oil? because it diverted some of the compense parks of the hot steam oil for use in the production of motor oils. But start oil forms asphalt on the pipe surfaces and cylinders, and attacks the pile in rings. A plant in Grein (Soviet Zone) produces a synthetic motor oil of poor polity which feamed during leats in the Leuna compressor pains. The Linkshoter oils are used.

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		at Leuna as they are delivered, without additives or chemical to Holland cils are still used at Schkopau, but the miscibility of other cils is poor.	AUIS: OIT MT &
		Greases used in the labrication of hot bearings are critically: Soviet Zono. The viscosity of the base cils used for the production of Standards of the Chember of Technology called for with a viscosity of only 6.5. Soft coal plants particularly or grease because it ran out of the bearings. A factory at Zeitz production of a synthetic grease which would contain a base oil viscosity. Soviet Zone industry purchased the synthetic grease usage it proved to be very unsatisfactory; viscosity of the base oil ranged from 1.8 to 3.8.	etion of accomed by the a base oil iticized this announced the of a high
	124	The oil used as a binding agent for paints is usually a linseed small quantities of litherge (lead monoxide) is added. The oil at a plant in Magdeburg and shipped to a factory in Wittenberge boiled for use in paint. The linceed oil is adulterated by the non-drying oils, thereby destroying its quick-drying properties of litherge in the Soviet Zone is attributed to the lead shorts sufficient supply of alkydal in the Zone, but because of improp of the raw materials, the alkydal is definitely inferior.	. where it is addition of the scarcity uge. There is a scr processing
	5X1	The shortage of paint pigments has become critical during the Turdingen (British Zone) and Leverkusen (British Zone) were the of pigments imported in the Soviet Zone; however, pigments are Soviet Zone at Wolfen, Hettatedt, Eisleben, and Chrduff. The I produced in the Zone are of good quality, but very scarce; iron are also in short supply and are of inferior grade. Plant will undertake large scale production of iron oxides; the production of red iron exide has been initiated, but the present operation is prohibitive.	produced in the lead pigments and zinc oxides the Lane.
2	24. 25X1 25X1 25X1	the Soviet Zone of Germany 18 in hydrogenation catalysts. In the summer of 1951, shipment of iron exide to determine the possible presence of multiple transfers, which are used in such catalysts. The analysis proviously which was a keen disappointment to the head of the research laid the Leuna Plant is virtually the sole manufacturer of catalysts. Zone, and the hydrogenation catalysts is scute.	analyze a colybachum or colyba
:	25X ² 25X ² 25X ²	The scarcity of rail equipment has seriously affected the rail system in the Soviet Zone of Germany. Rail is produced at Unterwe	s for export to ception, were d track have been such poor the hearily maintenance is lization of other anufacture new on system would
2	25X1	not enable the Soviets to launch an attack through the Soviet	ZOLD OI GERMANY,
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